

Customer Information

Laboratory Information

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CSR ID	122622-2024-CSR-1		A business unit of the South Australian Water Corporation
Account #	122622	AWQC Reference	393291
Project	AWQC-198096 Barossa Infrastructure Ltd - Routine 24/25	Date samples received	18/10/2024
Samples #	1	Date reported	5/11/2024
Purchase order #		Page	Page 1 of 6

Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2024-006-9752	84513	Barossa Infrastructure Ltd - Fromms Square Williamstown	18/10/2024	pH	Test not processed within holding time
2024-006-9752	84513	Barossa Infrastructure Ltd - Fromms Square Williamstown	18/10/2024	Suspended Solids	Test not processed within holding time

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AWQC Signatories

This document has been electronically signed by the authorised signatories below .

Name	Title
Mira Banasiak	Supervisor Bacteriology and Molecular Testing Se
Dzung Bui	Supervisor Metals and Physical
Ivana Cech	Technical Officer Chemistry
Vickie Dalgleish	Senior Technical Officer Bacteriology & Molecular
Thuy Diep	Technical Officer Chemistry
Aji John	Technical Officer Chemistry
Chad Major	Supervisor Field Services
Melissa Phillips	Senior Technical Officer Chemistry
Julian Weidenbach	Senior Technical Officer Chemistry



Description			
Sampling Point		84513-Barossa Infrastructure Ltd - Fromms Square Williamstown	
Sample ID		*2024-006-9752	
Sampled Date		18/10/2024 09:22	
Collection Type		AWQC Collected	
Parameter	LOR	Units	Result

Bacteriology

Bottle Temp (°C): NA

E.coli & Thermotolerant Coliforms Method: T0081-01 WMZ-500			
Tested Date:		18/10/2024	
E.coli	-	cfu/100mL	0
Thermotolerant Coliforms	-	cfu/100mL	0

Inorganic Chemistry - Metals

Bottle Temp (°C): NA

Metals Method: TIC-006 W09-023			
Tested Date:		21/10/2024	
Arsenic - Total	0.00006	mg/L	0.00072
Boron - Soluble	0.020	mg/L	0.046
Cadmium - Total	0.0001	mg/L	<0.0001
Calcium	0.05	mg/L	16.3
Chromium - Total	0.0001	mg/L	0.0003
Iron - Total	0.0005	mg/L	0.2865
Lead - Total	0.0001	mg/L	0.0004
Magnesium	0.05	mg/L	12.2
Manganese - Total	0.0001	mg/L	0.0338
Potassium	0.05	mg/L	4.17
Sodium	0.1	mg/L	60.0
Sulphate	0.6	mg/L	28.5
Sulphur	0.2	mg/L	9.5
Zinc - Total	0.0003	mg/L	0.0084
Metals Method: TMZ-M06 W09-023			
Tested Date:		18/10/2024	
Sodium Adsorption Ratio - Calculation	-		2.74
Total Hardness as CaCO3	2.0	mg/L	91

Inorganic Chemistry - Nutrients

Bottle Temp (°C): NA

Ammonia as N Method: T0100-01 W09-023			
Tested Date:		22/10/2024	
Ammonia as N	0.005	mg/L	0.041
Chloride Method: T0104-02 W09-023			
Tested Date:		22/10/2024	
Chloride	4.0	mg/L	98
Nitrate + Nitrite as N Method: T0161-01 W09-023			
Tested Date:		22/10/2024	
Nitrate + Nitrite as N	0.003	mg/L	0.482
Nitrogen - Total Method: TMZ-M06 W09-023			
Tested Date:		18/10/2024	
Nitrogen - Total	-	mg/L	1.04



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Collection Type		AWQC Collected	
Parameter	LOR	Units	Result

Inorganic Chemistry - Nutrients

Bottle Temp (°C):NA

Phosphorus - Total Method: T0109-01 W09-023			
Tested Date:		29/10/2024	
Phosphorus - Total	0.005	mg/L	0.051
TKN as N Method: T0112-01 W09-023			
Tested Date:		29/10/2024	
TKN as Nitrogen	0.05	mg/L	0.56

Inorganic Chemistry - Physical

Bottle Temp (°C):NA

Alkalinity Carbonate Bicarbonate and Hydroxide Method: T0101-01 W09-023			
Tested Date:		21/10/2024	
Alkalinity as Calcium Carbonate	-	mg/L	71
Bicarbonate	-	mg/L	87
Carbonate	-	mg/L	0
Hydroxide	-	mg/L	0
Conductivity & Total Dissolved Solids Method: T0016-01 W09-023			
Tested Date:		21/10/2024	
Conductivity	2	µS/cm	518
Note	-	Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	mg/L	287
pH Method: T0010-01 W09-023			
Tested Date:		21/10/2024	
pH	-	pH units	7.7
Temperature at which pH is measured	-	°C	20.6
Turbidity Method: T0018-01 W09-023			
Tested Date:		18/10/2024	
Turbidity	0.1	NTU	12

Sampling

Bottle Temp (°C):NA

Chlorine Method: T0012-01 W09-023			
Tested Date:		18/10/2024	
Chlorine - Free	0.1	mg/L	<0.1
Chlorine - Total	0.1	mg/L	<0.1
Monochloramine	0.1	mg/L	<0.1

Inorganic Chemistry - Waste Water

Bottle Temp (°C):NA

Biochemical Oxygen Demand - Total Method: T0153-01 W09-023			
Tested Date:		18/10/2024	
Biochemical Oxygen Demand	2	mg/L	<2



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Collection Type		AWQC Collected	
Parameter	LOR	Units	Result

Inorganic Chemistry - Waste Water

Bottle Temp (°C):NA

Suspended Solids Method: T0160-01 W09-023			
Tested Date:		30/10/2024	
Suspended Solids	1.0	mg/L	4

Analytical Methods

Analytical Method Code	Description	Reference Method
T0010-01	Determination of pH	AP4500HB
T0012-01	Chlorine by classical and portable meter (field test)	AP4500CLF
T0016-01	Determination of Conductivity - Corrected to 25C	AP2510B
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
T0081-01	E. coli - Membrane filtration	USEPA1604_1H
T0100-01	Ammonia/Ammonium - Automated Flow Colorimetry	AP4500NH3G
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0109-01	Phosphorus - total by discrete analyser	AP4500PF
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T0153-01	Biochemical Oxygen Demand	AP5210B
T0160-01	Suspended Solids 103C to 105C	AP4500
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry	AP4500NO3I
TIC-006	Elemental Analysis By ICP- MS	EPA200.8
TMZ-M06	Derived Results and Data Checks	
TMZ-M06	Derived Results and Data Checks	AP4500NORGA
TMZ-M06	Derived Results and Data Checks	APHA2340B
W-052	Preparation of Samples for Metal Analysis	AP3030AD

Sampling Methods

Sampling Method Code	Description
W09-023	Sampling Method for Chemical Analyses
WMZ-500	Sampling Method for Microbiological Analyses

Sampling Point and Sampled Date are provided when collected by customers. Validity of results are based on information and samples supplied by customers. Unless it is reported that sampling has been performed by AWQC, the samples have been analysed as received.

Laboratory Information

Laboratory	NATA accreditation ID
Bacteriology	1115
Customer Service Unit	-
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Nutrients	1115
Inorganic Chemistry - Physical	1115
Inorganic Chemistry - Waste Water	1115
Sampling	1115

Notes

1. The last figure of the result value is a significant figure.
2. # Indicates determination of the component is not covered by NATA Accreditation .
3. ^ Indicates result is out of specification according to the reference guideline.
4. * Indicates an incident has been recorded against the sample.
5. & Indicates the results have changed since the last issued report.
6. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>
7. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
8. The Limit of Reporting (LOR) is the lowest concentration of analyte which is reported at the AWQC and is based on the LOQ rounded up to a more readily used value. The Limit of Quantitation (LOQ) is the lowest concentration of analyte for which quantitative results may be obtained within a specified degree of confidence.
9. Where collection type is AWQC Collect, NATA has confirmed that due to a robust system in place for maintaining the temperature integrity for samples collected by AWQC's Field Laboratory Services , the recording of temperature when samples arrive at the AWQC is out of scope .
10. If pH has been tested then the pH will be outside of its holding time unless measured in the field.